

COLLOQUIUM

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LS-category of torus manifolds



Mathematics
and
Statistics

Date: Friday, Mar 13, 2015

Time: 3:30 - 4:30 PM

Room: RIC 209

Abstract: Lusternik Schnirelmann category (or simply LS-cat) is a measure of complexity of topological spaces which concerns covering a space with contractible subsets. It is a topological invariant defined to be the least integer n such that there exists an open covering set of $n + 1$ open sets with each open set contractible to a point in the whole space.

In this talk we show some results on LS-cat of torus manifolds, which are nice manifolds endowed with torus action. Furthermore we introduce equivariant LS-cat of topological spaces with a group action.